

THE TECH

VOL. XXXIII. NO. 153.

BOSTON, MASS., TUESDAY, MARCH 17, 1914.

PRICE TWO CENTS

FRESHMAN PROM.

The Freshman Class will hold their Hop at the Hotel Tuilleries on Friday evening, April seventeenth. Definite arrangements have been made and the success of the affair depends on the way the class supports it. The committee in charge, consisting of Philip E. Hulbert, Chairman, Dudley E. Bell and Paul C. Leonard, wish to announce that they will be personally responsible for a successful affair.

The committee will be in the Union today from 1 to 2, to receive the sign-ups, the total number being limited to seventy-five couples.

The price of the dance will be four dollars, one of which must be paid in upon signing up. Dancing will be held from eight-thirty until two, during which time a supper is to be served.

TECH SHOW REHEARSALS

All Departments Busy This Afternoon—Meeting at 4.15.

The dancers for the Tech Show are rapidly learning the intricate steps of the dances which are to be an important part of this year's production. With the small amount of practice which they have already had their work is extremely good. From now on they are to attend all rehearsals of the chorus unless they conflict with the dancing rehearsals, as it is necessary for them to become familiar with all the songs. This afternoon they are to go through a number of exercises under the direction of Harold O. Whitney.

The cast and chorus are to have a song rehearsal in Room B at the Union, at 4.15.

T. C. A. TO HOLD ELECTION

Nominations for the coming T. C. A. election are due today, and are to be left at the Cage in the Union, or at the office of the association in Eng. B. The nominations due are for the offices of president, vice-president, and treasurer for the ensuing year. The T. C. A. expects to receive a number of nominations as will result in a lively election. It is very probable that a sociable will be given on the day of the election, March 20th. All nominations must be signed by at least five members of the Association, and the men nominated must be members of the T. C. A.

ELECT. BOARD MEETING

There will be a meeting of the Sophomore Technique Electoral Committee today at 4.30 in 23 Rogers.

ENGLISH REALIST ATTACKS BERGSON

Professor Russell of Cambridge Says Philosophy Must Be Scientific.

An attack upon the intuitional method of Bergson, coupled with the suggestion that philosophy is at last to follow ages of comparatively barren speculation with a fruition of extended achievement, was the feature of the first lecture of the series which Professor Bertrand Russell opened before the Lowell Institute last night. Professor Russell holds the chair of philosophy in Trinity College, Cambridge, and is one of the leaders among the modern advocates of realism. The course which he has just opened is entitled "The Scientific Method in Philosophy." Last night's talk, on "Current Tendencies," brought out his conviction that the older schools of philosophy, even evolutionism, are crumbling before one which is more scientific in method, and which has attained an "ethical neutrality" that makes its conclusions of greater intrinsic value.

Professor Russell opened his talk with a consideration of the three types of philosophy which have held sway among recent thinkers. He mentioned the idealism of Kant and Hegel, the evolutionism with which the names of Darwin and Spencer have become synonymous, and the logical mechanistic theory which advocates of fatalism have advanced. He showed what appealed to him as fatal weaknesses in all three, and launched into a more extended criticism of Bergson's intuitional theory, which is so directly in opposition to his own views.

(Continued to Page 4.)

SOPH. GOVERNING BOARD

Very Important Meeting To Be Held Today at One O'clock.

An important meeting of the Sophomore Governing Board will be held today at one o'clock in 27 Rogers. An election will be held to fill the vacancy in the office of Vice-President. Also two men will be elected to the Technique Electoral Committee to take the places of E. W. Mann, resigned, and Harvey Dewson. The Sophomore baseball schedule will be brought up for ratification, and an appropriation for the team will be considered.

HOCKEY TEAM PICTURE

Any men on the Hockey squad who desire a picture of the team may secure one by handing their names to Nelson MacRae.

FIVE DOLLAR PRIZE FOR SHORT STORY

Technology Monthly Issues Call for Fiction for Next Issue.

In order to maintain the high standard set by the fiction printed in the first issue of the Technology Monthly, the following statement in regard to a short-story contest was issued last night by the editor.

The forms for the second issue of the Technology Monthly close on the twenty-third of this month, next Monday; and at that time the contest closes. All men in the Institute are eligible to enter the contest and the prize will be awarded to the best story accepted for publication.

There is a great deal of latent ability in the Institute and it is hoped that this call will bring forth some of this ability in the form of fiction. There are no limitations as to subject matter except that the plot must be original and up to date.

Stories to be entered in this contest should be left at the Cage or the Lower Office of THE TECH, addressed to "Editor, Technology Monthly—Short story contest." The author's name should be attached on a separate sheet together with his address and class number.

SOPHOMORE SIGN-UP

Junior Prom Tickets in Union at Noon Today—Few Left.

The Sophomore sign-up for the balance of the tickets to the Junior Prom starts at one o'clock today in the Union. There are only between thirty and forty tickets left for which the men of the 1916 class can sign up. A waiting list will be started, to take care of any which may be turned back, so that more men can be signed up now than to whom tickets will actually be issued later. But those to sign up first will have the sure chance at the tickets. Hereafter, there will be no place to sign for the Prom tickets except in the Union.

The preliminary orders will come out Monday. They can then be obtained from any member of the Prom Committee.

SOPHOMORE BASEBALL

All candidates for the 1916 baseball team are to report Wednesday afternoon at 4.00 P. M. in the Gym. A large number is expected, for although most of last year's team have signified their intention of again reporting, an excellent opportunity is offered to all new men. Anybody who has ever played baseball should therefore come out.

SPRING TRACK MEETING COACH KANALY TALKS

Track Schedule Announced—Work Starts Today—Outlook Is Bright.

An enthusiastic crowd greeted Coach Kanaly yesterday afternoon at the track meeting. Fully seventy-five men responded to the call and showed considerable interest in the plans outlined by the coach. The spring schedule for the Track Team was announced and is as follows: The Spring Interclass Meet comes on Friday morning, April 17. This date was chosen as it comes in Junior week and will probably pull a large crowd, thus increasing the gate receipts which have been very small in past years. The 25th of April the team is going to Bowdoin for a dual meet and meets Holy Cross the Saturday following at Tech Field. The 22nd and 23rd of May the New England Intercollegiate meet will be run off at the Stadium. The week following the I. C. A. A. A. meet is also at the Stadium.

In beginning his talk Frank Kanaly spoke at considerable length on the work so far this season. The results had been even more favorable than he had expected. The fine work of our cross-country team and our Freshman team were encouraging to all. The relay teams had defeated our old rival, Dartmouth, and had given Harvard a hard run for their money. The chances of coming off the champions in the New England Intercollegiates seem to be very good. Many of the teams have lost their stars, Dartmouth probably suffering the most. The University of Maine, Tech and Dartmouth will be the main contenders for the honor. Tech in his opinion should cinch a large number of places that have been left vacant by the stars that graduated last year. The mile, two mile, high

(Continued to Page 3.)

WEATHER

Fair and warmer.

CALENDAR

Monday, March 17, 1914.

4.00—Rehearsal of Show Ballet—Union.

1.15—Cast and Chorus Song Rehearsal—Union.

Wednesday, March 18, 1914.

7.45—E. E. Society Meeting—Union.

Thursday, March 19, 1914.

4.6—Show Pony Rehearsal—Room 1, Union.

1.30—T. C. A. Meeting—Union.

Friday, March 20, 1914.

5.00—T. C. A.—Room A and B, Union.

4.00—Show Pony—Room B, Union.

THE TECH

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TUESDAY, MARCH 17, 1914.

IN CHARGE OF THIS ISSUE.

Editor: A. E. Keating '17.

Associates: A. Holmes '16; F. A. Stearns '17; R. F. F. Brooks '17.

When the practice was begun of taking up collections at the Freshman meetings for various class teams and activities or for the class treasury, the general opinion was that a panacea had been discovered which would solve all financial troubles of the class, and usher in an era of peace and plenty. Since that time the thing has been rather overdone, so that the freshmen come to their meetings with a sinking at heart and leave with an empty feeling in the region of the pocketbook, so that the advisability of the procedure has been seriously questioned.

Insofar as this practice places the burden of class support on the shoulders of those who are best able to afford it, it is entirely salutary. But it has a dangerous tendency to tax only those who are too sensitive to refuse in public, or who are loyal enough to contribute whether they are able or not. Aside from this, a contractive effect on attendance at class meetings may be expected in the natural course of events.

We do not wish to denounce these collections altogether, but we think great care should be used in their execution.

FACULTY NOTICE

March 16, 1914.

The exercises in Drop Forging will be held this week at the second exercise for each section.

WALTER HUMPHREYS,
Registrar.

COSMOPOLITAN CLUB TO HOLD DANCE IN UNION

Vaudeville and Dance To Be Biggest Event in College History.

Saturday, March twenty-eighth, is to be a big day in Tech history. The Cosmopolitan Club is to hold the biggest event ever attempted by an organization of its kind, not only in Tech, but in any college. First of all, Huntington Hall will be taxed to its utmost capacity to accommodate the crowd that is going to turn out to witness the best vaudeville performance in the state today. Johnny Evers' salary isn't as big as the weekly income of our stars. The president of the Chinese Republic has cabled his personal endorsement of one of our acts. This act was given before the late Hassan Hei Gargouslar Syr Moulatz Alikon and had to be repeated immediately. Unfortunately "Hei" didn't live to see the second performance.

Why, when Dr. Muck heard of the musicians we have engaged, he immediately came over to THE TECH office and offered five times the Symphony salary, to try to induce our artists to play as soloists.

And last of all surprises! There is to be a dance in the Union,—a dance that will make all previous affairs seem like the poorest imitations. Vernon Castle has sent us word that he will be glad to demonstrate all the new steps. Should he by any chance be unable to come personally, he will send a representative who will show Boston steps never thought of before.

And all this for fifty cents. This may not be charity, but it certainly is the nearest thing to it that has ever been attempted. Vaudeville and a dance with your girl all for one sheet. Everybody out and show your spirit.

Get your tickets from one of the members or at the Union, where they will be on sale daily at one o'clock, and when the day appointed arrives, and when eight o'clock rolls around, let us fill every seat in Huntington Hall. Come early and avoid the rush.

ENGINEERING AND SCIENTIFIC NOTES

The design, installation, and operation of any plant that depends for its success upon flowing water demands a knowledge of the total flow of the stream and its variation throughout the year. The United States Geological Survey has been compiling for years stream-flow records for many streams in the United States and the methods of collecting such records for open-water periods have been standardized, but during the winter the presence of ice affects the flow so much that the laws of flow pertaining to open channels are not entirely applicable, and no standard methods for collecting and interpreting the data at that season have been recognized. In many localities ice persists in the streams for periods ranging from a few days to several months, and although the conditions resulting from



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ice are most pronounced in northern regions they are prevalent over wide areas, especially at high altitudes.

Recent studies made by the Geological Survey have added much information in regard to the factors influencing stream flow when ice is present, and with a view to standardizing, so far as practicable, the methods for ascertaining winter flow Water-Supply Paper 337, entitled "The Effects of Ice on Stream Flow," by William Glenn Hoyt, has been published and is available for free distribution. This paper discusses the factors that influence the run-on during the periods of low temperature, the varieties of ice and their effect on the applicability of the laws of

open-channel flow, and the collection and interpretation of necessary data.

A copy of the report may be obtained free on application to the Director of the Geological Survey, Washington, D. C.

(Continued to Page 3.)

It was announced Saturday afternoon that Cornell would not row its usual race with Penn in the American Henley for Junior varsity eights.

President Lowell of Harvard urges that boys should enter college at sixteen.

SPRING TRACK SEASON STARTS TODAY

Work Will Commence With Run from Gym—Squad of Over Eighty Expected.

Today marks the start of the outdoor Varsity track season. This afternoon the preliminary work will start when the squad reports at the Gym for practice. In about a week Coach Kanaly expects to take the men out to the Tech Field in Brookline. The track at the Field is fast rounding into shape. While it is a little wet and heavy a few days of warmth and sunshine will put it into perfect condition. Every man is to file with Coach Kanaly the days and the time when he will report for practice so that Mr. Kanaly can arrange for them to take their work in squads.

MEETING OF M. E. SOCIETY

Thursday at 4.00 in Engineering B—Mr. H. K. Rowell To Speak.

The talk that is to be given before the Mechanical Engineering Society Thursday afternoon, has been selected on account of its relation to the present work in the course. Mr. H. K. Rowell is the speaker for the meeting, his subject being "The General Arrangement of Textile Mills." The officers of the Society thought this a particularly appropriate subject as both Juniors and Seniors are studying cotton machinery and the layout of textile manufacturing plants. The meeting will be at 4.00 o'clock in Room 11, Engineering B.

FRESHMEN PERSPIRING

The M. I. T. Cadet Corps is now engaged in the practice of the Butts Manual, a serial of gymnastic exercises much used in the army, and which is to be included in this year's exhibition drill. Although rather tiring to the Freshmen, it nevertheless presents a very pleasing spectacle to the eye of the observer, and will no doubt prove a very desirable addition to the interesting features of the prize drill.

MRS. STOKES ON TRIP

Mrs. Rose Pastor Stokes who spoke recently at the Union is making a trip among the New York Colleges, speaking at Cornell, Hobart, University of Rochester, Colgate, Hamilton, and other Colleges, under the auspices of the Intercollegiate Socialist Society.

At Cornell, she addressed a women's suffrage and a prohibitionist organization and several student groups; at Hobart she spoke under the auspices of the University; at the University of Rochester she addressed an Economics Class; at Rochester Theological Seminary she lectured before the student body; at Colgate before the Intercollegiate Socialist Society chapter; and at Hamilton before the Political Economy class. Preparations are also being made for her to speak at Union College and at Vassar.

GLEE CLUB CONCERT AT LYNN LAST NIGHT

Many Encores Called for—Go Out To Natick This Week.

At last night's concert of the Glee Club in Lynn at the Classical High School, a radical change was made from the old timeworn "high brow" numbers in that snappy Tech songs and parodies on the latest hits were substituted and rendered in such manner as to call forth much appreciation from the audience in the way of applause and encores.

A new Glee Club quartet, composed of Tallman, Parkinson, Blakely and Tabbutt, made its debut, and quickly proved that it well merited all the praise which could be given. Parkinson especially pleased with tones which, according to those present, were such as to soothe even the hardest and grouchiest of the audience. More excitement is expected of this snappy aggregation in the future.

Tallman, in two solos, "In Spain" and "The Little Irish Girl," made a great hit and was obliged to repeat his part of the performance.

The Banjo Club was next on the program with a pleasing rendition of Fliege's "Chinese Serenade," which was executed with true Chinese effect. For an encore they played "The Campbell Kids."

The Banjo Club Trio, consisting of Rankin, Brown and Sherman, played Bacon's "Troopers," a strong military march with tremolo effects. For the encore Rankin and Sherman played a novel duet in which they tossed their banjos into the air, at the same time managing to keep time and hold the melody. A second encore was required, and the entire trio responded with Vess Ossman's "Gay Gassoon," a celebrated phonograph piece, which was especially appropriate as it contained several Irish selections.

On its second appearance the Banjo Club played Lansing's "Darkie's Dream," which was also well received. As the encore they played "Bean Club Musings," a lively little one step, and in the trio they introduced the harmonica artists who made such a hit at the Senior Class Smoker last Friday.

As a whole the concert was such a success that it is extremely probable that this program will be repeated at this week's concert in Natick.

HARVARD WINS DEBATE

Chinese Students Discuss Forms of Government Saturday.

Harvard won the debate between the Tech and Harvard Chinese clubs held in the Union Saturday afternoon. The Institute team supported the negative side of the question, "Resolved that the Provincial System of Government Should Be Preserved." The Tech debaters were T. C. Hsi, P. H. Hsu and H. K. Chow, and their opponents were K. S. Ma, S. J. Shu and F. Chang. The judges were Y. C. Mei of Worcester Tech, C. C. Yen of Harvard and M. C. Hou of Tech. Dr. W. S. New was the presiding officer.

MR. DU BOIS ADDRESSES MINING ENGINEERS

Noted Sluice Construction Expert Delivers Illustrated Lecture.

Mr. DuBois of Philadelphia, a prominent Mining Engineer, spoke to the Mining Engineering Society last evening in the Union on the subject of Hydraulic Mining.

The speaker is considered one of the most experienced mining engineers, being especially expert in sluice building. His address before the Society included a discussion on the development of sluice linings from wooden blocks to high-carbon steel plates.

These plates are used where a high duty in cubic yardage makes it profitable to mine ore runnings so low that the cost must be brought down to 1 3-4 cent per cubic yard. These sheets are rolled from metal specially high in carbon content.

Mr. DuBois showed a large number of stereopticon views. Besides the complete line of rather technical pictures illustrating his talk, he showed some beautiful scenic views and some illustrations pertaining to Natural History.

ARCHITECTURAL SOCIETY

Meeting on Friday—Mr. W. T. Aldrich Will Speak Before Club.

On Friday evening, March 20th, the Architectural Society is to hold a Smoker in Room 42, Pierce Building. Mr. W. T. Aldrich, of Bellows and Aldrich, Architects, and instructor of design in the Department of Architecture, will give an interesting talk on "Student Life at the Ecole des Beaux Arts in Paris."

Mr. Aldrich spent several years at the Ecole, and is therefore well fitted to tell about the life of the Architectural students abroad. All who are interested are urged to attend. After the talk, the usual "feed" will be provided. Tickets at 25c may be obtained of the officers of the society.

SPRING TRADE MEETING COACH KANALY TALKS

(Continued from Page 1.)

jump and the dash ought to come to Tech in the majority of places.

By coming out champions in the New Englands and runner up in the big intercollegiates would boom the Institute not only athletically but also as a school, was the opinion of the coach. The chances of doing this seem to be the best for a number of years and would be an incentive to the men when they get over to the new site. To get that position now would probably mean that we could hold it for a number of years after once getting the interest aroused.

In concluding his talk the coach gave the fellows several hints about training and practice that would be used this spring. The men are to start work today and will probably go out to the Field by next week.

Theta Chi won the trophy cup in the inter-fraternity track meet at University of Maine.

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ENGINEERING AND SCIENTIFIC NOTES

(Continued from Page 2.)

Probably no other mineral is mined which has so large a hold on public attention and at the same time has so small a total monetary value as the uranium minerals. This interest is, of course, due not to the minerals as such, nor to the uranium they contain, but the accompanying radium, which is found only with uranium. Hitherto the interest in radium, though lively, has been largely academic, on account of the marvelous qualities which it displays when compared with better-known elements. Toward the end of 1913, however, public interest became almost feverish, owing to the apparent cures of cancer wrought by the application of the gamma rays given off by radium.

Uranium minerals were produced in commercial quantity in the United States in 1913, as shown by preliminary statistics gathered by Frank L. Hess, of the United States Geological Survey, only in Colorado and Utah, and although during the year some pitchblende was mined in Colorado in the Belcher & Calhoun mines, only a few pounds were sold, though 50 dry tons of low-grade material carrying 1.49 per cent. uranium oxide (U_3O_8) was shipped to France from the Kirk mine. This had been mined in a previous year. Carnotite, a yellow powdery or waxy mineral found in the sandstones of the high plateau between the Rocky Mountains of Colorado and the San Rafael Swell of Utah, south of the Book Cliffs, furnished the whole production.

EXPOSITION STORY SECURED BY MONTHLY

Panama-Pacific Fair Gives News and Official Cuts to Magazine.

Yesterday afternoon the Feature Editor, J. R. Spalding and Managing Editor, K. D. Kahn of The Technology Monthly went to Providence for the purpose of securing some illustrations for the feature story for the Next Issue.

Leaving the publication office of the Monthly at 3:05 p. m., they arrived at Providence at exactly four o'clock and went at once to the editorial offices of the Providence Journal.

Matters connected with the circulation of the Monthly among the alumni were then attended to after which the representatives of the publication called on one of the prominent manufacturers for the purpose of closing an advertising contract.

With this preliminary business completed the work on the feature story for the next issue was taken up.

The representatives of the Monthly then went to the Narragansett Hotel where they had learned that Mr. Thomas Morrell Moore, Commissioner General for the Panama Pacific International Exposition, had registered. Mr. Moore was in Providence on business for a single hour, but was unoccupied at that time.

As the feature story of the next issue of the Technology Monthly is a detail outline of the construction and layout of the buildings and grounds of the Panama-Pacific International Exposition to be held next year at San Francisco, Mr. Moore was asked for photographic reproductions of the architect's scheme for development. Mr. Moore offered to furnish these official panoramas in two colors and have them here by special telegraphic order to San Francisco in time for the publication. He extended the courtesy of the Exposition Officials to the Technology Monthly.

He outlined for THE TECH the publicity arrangements that the Commissioners had made and arranged for the United States and Foreign countries. The beautifully illustrated prospectus has been sent to journals in the capital cities of ten leading European Countries. The prospectus was translated into the commercial languages of these countries and copies returned to him.

The English, original, version of the prospectus has been made public to the members of the English Parliament, the legislatures of the States, and to the Editors of the Technology Monthly only. A contest is being arranged for students of preparatory and intermediate normal schools for the best translation of the text of the prospectus from the so-called "commercial" languages of these foreign countries.

A special article has been prepared for The Monthly by a San Francisco architect interested in Technology affairs.

"Billy" Bull, Yale's great football catch, has been appointed football doctor by the athletic committee of the University.

PHILOSOPHY A SCIENCE.
(Continued from Page 1.)

Intuition, said the speaker, is representative of a less highly developed form of life than that to which man has attained. Animals and uneducated men are more especially prone to rely upon it than the man who is trained to use the natural laws which science demonstrates to exist. Intuition is inverse to civilization. In the knowledge which it should be particularly fitted to give—self-knowledge—it is notoriously a failure. In matters of love, where it is so often supposed to be the safest guide, it is again ridiculously a poor counsellor. The intellect, on the other hand, is the highest means we have yet known for the attainment of knowledge apart from personal or ethical considerations. It gives knowledge for its own sake, and looks with the same indifference on the great and the small in the world of cold fact.

It is upon this indifference, this "ethical neutrality," that we must look as the most promising of modern philosophical developments. Philosophy is to be a science. It is to work in a field of its own, and to give conclusions of its own in utter independence of the conclusions of other sciences. If we look to it for the solution of ethical difficulties or moral questions we are certain to meet with disappointment; but if we use it for no more than it pretends to give, if we employ it to know the world about us in a deeper way than physical science can touch, then we shall find it prolific and profitable.

Professor Russell's next lecture, "Logic As the Essence of Philosophy," will be given on Thursday evening. The course is to cover four weeks.

Boston Opera House

WED., 7:45 to 11. ONLY TIME THIS SEASON. MANON. Jennie Dufau, Murotore, Danges, Wronski. Cond., Strony. FRI., 8 to 10:40. FIRST APPEAR-

ANCE OF FELICE LYNE. RIGOLETTO. Lyne, Gay, Amato. Laffitte. Cond., Moranzoni.

SAT., 1:45 to 5. TOSCA. Weingartner, Marcoux, Zenatello. Cond., Weingartner. Followed by COPPELIA, Act I. Galli, Caldwell, Coccetti. Cond., Du-

bols.

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